



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 012049  
CERTIFICATION DATE: November 27, 2013  
DATE RECERTIFICATION DUE: May 26, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

Melissa Kennedy

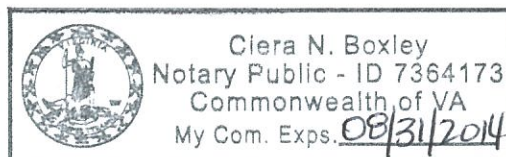
Program Manager, Calibration & Training

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2nd day of December, 2013 by Melissa Kennedy

  
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014  
TLN



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 11/27/2013**

MMB

WJL

<b>Instrument Serial Number:</b>	012049	<b>As of 27-Nov-13</b>
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Maintenance Date	Certification Date	Technician Initials	Remarks
27-Nov-13	27-Nov-13	MMB (26417)	CALIBRATED BAROMETRIC PRESSURE SENSOR. CERTIFIED.
27-Sep-13	28-Aug-13	MMB (26417)	REPLACED DRY GAS STANDARD.
28-Aug-13	28-Aug-13	MMB (26417)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
26-Jun-13	13-Mar-13	HMS (18910)	REPLACED DRY GAS STANDARD.
13-Mar-13	13-Mar-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
22-Jan-13	21-Sep-12	SED (24178)	REPLACED DRY GAS STANDARD.
21-Sep-12	21-Sep-12	SED (24178)	CERTIFIED. REPLACED E-SEEK.
29-Jun-12	06-Apr-12	DBH (21250)	REPLACED DRY GAS STANDARD.
06-Apr-12	06-Apr-12	DBH (21250)	REPLACED PRINTER RIBBON. CERTIFIED. REPLACED DRY GAS STANDARD.
21-Feb-12	21-Feb-12	HMS (18910)	CERTIFIED
02-Dec-11	02-Dec-11	HMS (18910)	CALIBRATED, CERTIFIED AND ACCEPTED.

mmB  
Wk

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 012049 Worksheet Start Date 11/27/2013  
Location DFS  
Address  
DFS Technician Michelle Billeter License No. 26417  
☒ Laboratory ☐ On-Site

## Site Specifications

Yes No

### 1 Secured Environment:

Location must not be accessible to the general public.

☐ ☐

### 2 Environment free from contaminants

☐ ☐

### 3 Dedicated telephone line:

The phone line should be used solely by the instrument.

☐ ☐

### 4 Adequate Ventilation:

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☐ ☐

### 5 Stable temperature controls:

The instrument should not be exposed to direct sources of temperature variation.

☐ ☐

### 6 115VAC power source:

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☐ ☐

### 7 Room Condition:

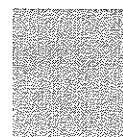
The site should be free of excessive moisture, heat and dust.

☐ ☐

Old serial no.  
E-Seek  
Keyboard  
Printer  
UPS

New serial no.

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:



Maintenance (if any)

Calibrated Barometric Pressure Sensor.

Comments (if any)

Instrument Serial Number 012049

Certification Date 11/27/2013

Instrument Barometer (mm HG) 746

Reference Barometer (mm HG) 746

Reference Barometer(RB)Serial # 009111

RB Calibration Due 5/23/2014

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.243
0.250	0.245	0.237	0.252	<b>Sample 2</b>	0.243
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.243
0		0.243	0.243		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.146
0.150	0.147	0.142	0.151	<b>Sample 2</b>	0.146
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.146
0		0.146	0.146		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.078
0.080	0.078	0.075	0.081	<b>Sample 2</b>	0.078
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.078
0		0.078	0.078		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.019
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☐ Calibrated☒ Certified☐ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG201104-10

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.099
0.100	0.098	0.095	0.101	<b>Sample 2</b>	0.099
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.099
0		0.099	0.099		

DFS Technician

*Michelle Belle*

Date

11/27/13

Issuing Analyst

*Melissa Kennedy*

Date

12/1/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

DFS Document 250-F113

Revision 6

Page 2 of 2

mmb

nmk

# **Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 012049      Test Number: 1950  
Test Date: 11/27/2013      Test Time: 09:24 EST

Technician Initials: MMB

Dry Gas Target: 0.245

Lot Number: 0651225015-02      Exp Date: 04/01/2014

Tank Pressure: 546 psi      Barometric Pressure: 746 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:25
BLK	0.000	09:26
CHK	0.243	09:27
BLK	0.000	09:28
CHK	0.243	09:29
BLK	0.000	09:30
CHK	0.243	09:31
BLK	0.000	09:32

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

mmb

Wk

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 012049      Test Number: 1251  
Test Date: 11/27/2013      Test Time: 09:35 EST

Technician Initials: MMB

Dry Gas Target: 0.147

Lot Number: 0651215014-06      Exp Date: 04/01/2014

Tank Pressure: 71 psi      Barometric Pressure: 745 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:35
BLK	0.000	09:36
CHK	0.145	09:37
BLK	0.000	09:38
CHK	0.146	09:39
BLK	0.000	09:40
CHK	0.146	09:41
BLK	0.000	09:42

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

mmB

mm

# Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 012049      Test Number: 1952  
Test Date: 11/27/2013      Test Time: 09:48 EST

Technician Initials: NMB

Dry Gas Target: 0.078

Lot Number: 0651208012-06      Exp Date: 04/01/2014

Tank Pressure: 105 psi      Barometric Pressure: 745 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:49
BLK	0.000	09:49
CHK	0.078	09:50
BLK	0.000	09:51
CHK	0.078	09:52
BLK	0.000	09:53
CHK	0.078	09:54
BLK	0.000	09:55

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

mmb  
NMB

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 012049      Test Number: 1253  
Test Date: 11/27/2013      Test Time: 10:01 EST

Technician Initials: *NMB*

Dry Gas Target: 0.020

Lot Number: 0651203011-07      Exp Date: 04/01/2014

Tank Pressure: 188 psi      Barometric Pressure: 745 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:01
BLK	0.000	10:02
CHK	0.019	10:03
BLK	0.000	10:04
CHK	0.019	10:05
BLK	0.000	10:06
CHK	0.019	10:07
BLK	0.000	10:08

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success



mmB  
Msk

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 012049      Test Number: 1954

Test Date: 11/27/2013      Test Time: 10:13 EST

Dry Gas Target: 0.294

Lot Number: AG322702-03      Exp Date: 08/15/2015

Tank Pressure: 108 psi      Barometric Pressure: 745 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	10:14
CHK	0.293	10:14
BLK	0.000	10:16
CHK	0.294	10:17
BLK	0.000	10:18
CHK	0.294	10:19

Test Status: Success

Calibration CRC: 97404040

mmB

NSL

Inbox EC/IR-II: Accuracy Check

*Department of Forensic Science*

Serial Number: 012049      Test Number: 1955

Test Date: 11/27/2013      Test Time: 10:27 EST

Dry Gas Target: 0.098

Lot Number: AG201104-28      Exp Date: 01/11/2014

Tank Pressure: 75 psi      Barometric Pressure: 745 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	10:30
CHK	0.099	10:29
BLK	0.000	10:30
CHK	0.099	10:31
BLK	0.000	10:32
CHK	0.099	10:33

Test Status: Success

Calibration CRC: 9740404D

mmb

ndk

INSTRUMENT, TEST,

PF3

BILLETTER, MICHELLE, M

DFS Central Lab

26417

10/01/2014

11/27/2013

012040

11/27/2013

10:57 EST

0.00



# IntoxNet MIS Report

Report Generated 27 Nov 2013 at 11:04

mmb  
pml

## Test Results

Instrument Serial Number 012049

Test # 001956 Subject Test

Test Location 1 Department of

Test Date 27 Nov 2013

Test Location 2 Forensic Science

Test Time 10:50

Remote/Local Local

Test Location 3

System Check Passed

Operator's Last Name BILLETER

Agency DFS Central Lab

Card Serial Number 126417

Subject's Last Name INSTRUMENT

Subject's Middle Initial

Driver's License Number

Driver's License State

Operator's First Name MICHELLE

License Number 26417

Effective Date 10/01/2012

Operator's Middle Initial M

Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 27 Nov 2013 End Time 10:58

Result Time 10:57

Result Date 27 Nov 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:51

Data Type BLK

Sample Value 0.000

Sample Time 10:52

Data Type CHK

Sample Value 0.098

Sample Time 10:52

Data Type BLK

Sample Value 0.000

Sample Time 10:54

Data Type SUBJ

Sample Value 0.000

Sample Time 10:54

Data Type BLK

Sample Value 0.000

Sample Time 10:55

Data Type SUBJ

Sample Value 0.000

Sample Time 10:57

Data Type BLK

Sample Value 0.000

Sample Time 10:58

Standard Type Dry Gas Std

Standard Value 0.098

Standard Lot Number AG201104-10

Standard Expiration Date 01/11/2014

Tank Pressure 139

Barometric Pressure 746 mmHg

Blow Sample Number 1 Blow Duration 3.72 sec

Blow Volume 1654 cc End-of-Blow Time 10:54

Blow Sample Number 2 Blow Duration 3.85 sec

Blow Volume 1708 cc End-of-Blow Time 10:57

Tamper Evident Stamp a5f71140

Test Status Code 0

Test Status Success